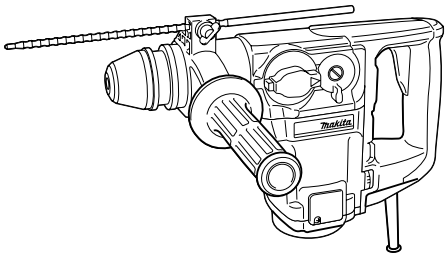
ENGLISH (Original instructions)

INSTRUCTION MANUAL

Rotary Hammer

HR3000C



003097

DOUBLE INSULATION

IMPORTANT: Read Before Using.

ENGLISH (Original instructions)

SPECIFICATIONS

Model		HR3000C
Capacities	Concrete	30 mm
	Core bit	90 mm
	Steel	13 mm
	Wood	30 mm
No load speed (min^{-1})		360 - 720
Blows per minute		1,650 - 3,300
Overall length		391 mm
Net weight		5.1 kg
Safety class		⧈/II

• Due to our continuing programme of research and development, the specifications herein are subject to change without notice.

• Specifications may differ from country to country.

• Weight according to EPTA-Procedure 01/2003

END201-5

Symbols

The following show the symbols used for the equipment. Be sure that you understand their meaning before use.

· Read instruction manual.

· DOUBLE INSULATION

· Only for EU countries
Do not dispose of electric equipment together with household waste material! In observance of European Directive 2002/96/EC on waste electric and electronic equipment and its implementation in accordance with national law, electric equipment that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

ENE043-1

Intended use

The tool is intended for hammer drilling and drilling in brick, concrete and stone as well as for chiselling work.
It is also suitable for drilling without impact in wood, metal, ceramic and plastic.

ENF002-1

Power supply

The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated in accordance with European Standard and can, therefore, also be used from sockets without earth wire.

ENG905-1

Noise

The typical A-weighted noise level determined according to EN60745:

Sound pressure level (L_{pA}) : 89 dB(A)
Sound power level (L_{WA}) : 100 dB(A)
Uncertainty (K) : 3 dB(A)

Wear ear protection

ENG900-1

Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

Work mode : hammer drilling into concrete
Vibration emission ($a_{h,HD}$) : 18.5 m/s^2
Uncertainty (K) : 1.5 m/s^2

Work mode : chiseling
Vibration emission ($a_{h,CHeq}$) : 11.0 m/s^2
Uncertainty (K) : 2.0 m/s^2

Work mode: drilling into metal
Vibration emission ($a_{h,D}$) : 2.5 m/s^2
Uncertainty (K) : 1.5 m/s^2

ENG901-1

- The declared vibration emission value has been measured in accordance with the standard test method and may be used for comparing one tool with another.
- The declared vibration emission value may also be used in a preliminary assessment of exposure.

⚠WARNING:

- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is

used.

- Be sure to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

ENH101-15

For European countries only

EC Declaration of Conformity

We Makita Corporation as the responsible manufacturer declare that the following Makita machine(s):

Designation of Machine:
Rotary Hammer
Model No./ Type: HR3000C
are of series production and

Conforms to the following European Directives:

2006/42/EC

And are manufactured in accordance with the following standards or standardised documents:

EN60745

The technical documentation is kept by our authorised representative in Europe who is:

Makita International Europe Ltd.
Michigan Drive, Tongwell,
Milton Keynes, Bucks MK15 8JD, England

30.1.2009

000230

Tomoyasu Kato
Director
Makita Corporation
3-11-8, Sumiyoshi-cho,
Anjo, Aichi, 446-8502, JAPAN

GEA005-3

General Power Tool Safety Warnings

⚠ **WARNING Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

1. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

Electrical safety

4. **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
5. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
6. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
7. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
8. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
9. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
10. **Use of power supply via a RCD with a rated residual current of 30mA or less is always recommended.**

Personal safety

11. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
12. **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
13. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking**

up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

14. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
15. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
16. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
17. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

Power tool use and care

18. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
19. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
20. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
21. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
22. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
23. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
24. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

Service

25. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.
26. **Follow instruction for lubricating and changing accessories.**
27. **Keep handles dry, clean and free from oil and grease.**

GEB007-7

ROTARY HAMMER SAFETY WARNINGS

1. **Wear ear protectors.** Exposure to noise can cause hearing loss.
2. **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
3. **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. **Wear a hard hat (safety helmet), safety glasses and/or face shield. Ordinary eye or sun glasses are NOT safety glasses. It is also highly recommended that you wear a dust mask and thickly padded gloves.**
5. **Be sure the bit is secured in place before operation.**
6. **Under normal operation, the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. Check tightness of screws carefully before operation.**
7. **In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication. Without proper warm-up, hammering operation is difficult.**
8. **Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.**
9. **Hold the tool firmly with both hands.**
10. **Keep hands away from moving parts.**
11. **Do not leave the tool running. Operate the tool only when hand-held.**
12. **Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.**
13. **Do not touch the bit or parts close to the bit immediately after operation; they may be extremely hot and could burn your skin.**

14. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**

SAVE THESE INSTRUCTIONS.

⚠WARNING:

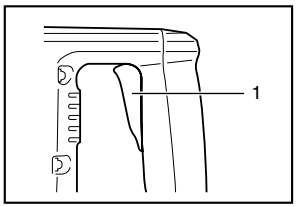
DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

FUNCTIONAL DESCRIPTION

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Switch action



1. Switch trigger

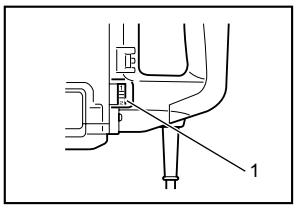
003110

⚠CAUTION:

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Release the switch trigger to stop.

Speed change



1. Adjusting dial

003118

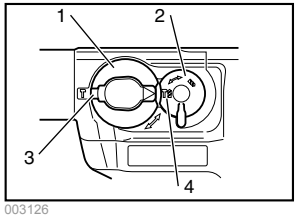
The revolutions and blows per minute can be adjusted just by turning the adjusting dial. The dial is marked 1 (lowest speed) to 6 (full speed).

Refer to the table below for the relationship between the number settings on the adjusting dial and the revolutions/blows per minute.

Number on adjusting dial	Revolutions per minute	Blows per minute
6	720	3,300
5	690	3,150
4	590	2,700
3	490	2,250
2	390	1,800
1	360	1,650

006379

Selecting the action mode

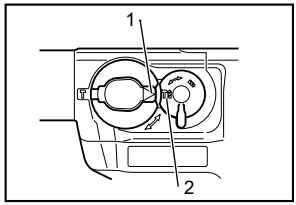


1. Change lever
2. Shift lever
3. Lock button
4. Rotation with hammering symbol

003126

When selecting an action mode, first set the change lever and the shift lever to the position shown in the figure. Then proceed as follows.

Rotation with hammering

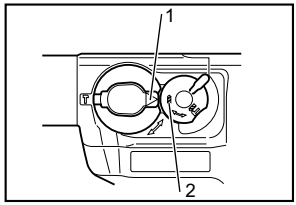


1. Pointer
2. Rotation with hammering symbol

003129

For drilling in concrete, masonry, etc., depress the lock button and rotate the change lever so that the pointer points to the symbol. Use a tungsten-carbide tipped bit.

Rotation only

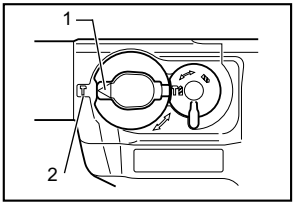


1. Pointer
2. Rotation only symbol

003132

For drilling in wood, metal or plastic materials, rotate the shift lever so that the pointer points to the symbol. Use a twist drill bit or wood bit.

Hammering only



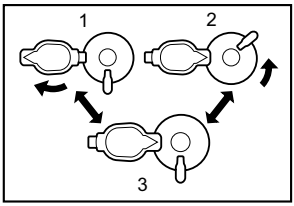
1. Pointer
2. Hammering only symbol

003134

For chipping, scaling or demolition operations, depress the lock button and rotate the change lever so that the pointer points to the ⍑ symbol. Use a bull point, cold chisel, scaling chisel, etc.

⚠CAUTION:

- Do not rotate the change lever and/or shift lever when the tool is running under load. The tool will be damaged.
- To avoid rapid wear on the mode change mechanism, be sure that the change lever and/or shift lever is always positively located in one of the three action mode positions.
- The action mode cannot be changed directly from "hammering only" to "rotation only" or from "rotation only" to "hammering only". First set the change lever and the shift lever to "rotation with hammering" mode position shown in figure. Then set them to the position for "hammering only" or "rotation only".



1. Hammering only
2. Rotation only
3. Rotation with hammering

003136

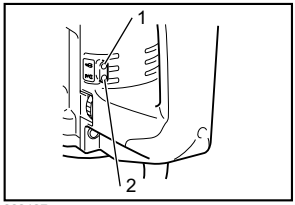
Torque limiter

The torque limiter will actuate when a certain torque level is reached. The motor will disengage from the output shaft. When this happens, the bit will stop turning.

⚠CAUTION:

- As soon as the torque limiter actuates, switch off the tool immediately. This will help prevent premature wear of the tool.

Indicator lamp



1. Power-ON indicator lamp (green)
2. Service indicator lamp (red)

003137

The green power-ON indicator lamp lights up when the tool is switched ON. If the indicator lamp is lit but the tool does not start, the carbon brushes may be worn out, or the electric circuit or the motor may be defective. If the indicator lamp does not light up and the tool does not start, the ON/OFF switch or the mains cord may be defective.

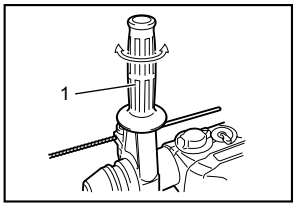
The red service indicator lamp lights up when the carbon brushes are nearly worn out to indicate that the tool needs servicing. After approx. 8 hours of use, the motor will automatically be shut off.

ASSEMBLY

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

Side grip



1. Side grip

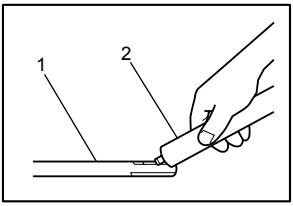
003145

⚠CAUTION:

- Always use the side grip to ensure operating safety when drilling in concrete, masonry, etc.
- When the bit begins to break through concrete or if the bit strikes reinforcing rods embedded in concrete, the tool may react dangerously. Maintain good balance and safe footing while holding the tool firmly with both hands to prevent dangerous reaction.

The side grip swings around to either side, allowing easy handling of the tool in any position. Loosen the side grip by turning it counterclockwise, swing it to the desired position and then tighten it by turning clockwise.

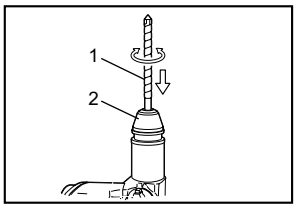
Installing or removing the bit



1. Bit shank
2. Bit grease

003150

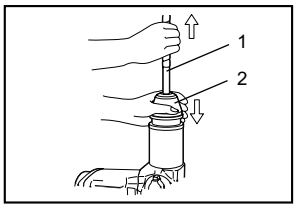
Clean the bit shank and apply bit grease before installing the bit.
Insert the bit into the tool. Turn the bit and push it in until it engages.



1. Bit
2. Chuck cover

003160

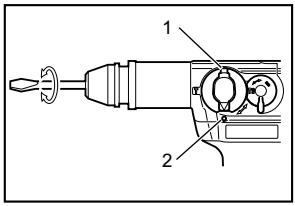
If the bit cannot be pushed in, remove the bit. Pull the chuck cover down a couple of times. Then insert the bit again. Turn the bit and push it in until it engages.
After installing, always make sure that the bit is securely held in place by trying to pull it out.
To remove the bit, pull the chuck cover down all the way and pull the bit out.



1. Bit
2. Chuck cover

003167

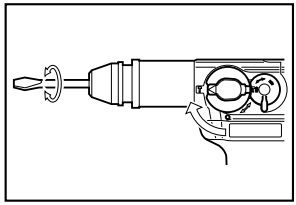
Bit angle (when chipping, scaling or demolishing)



1. Lock button
2. O symbol

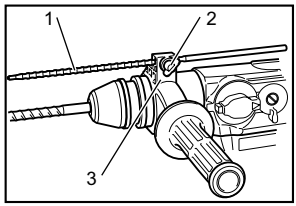
003171

The bit can be secured at 12 different angles. To change the bit angle, depress the lock button and rotate the change lever so that the pointer points to the "O" symbol. Turn the bit to the desired angle.
Depress the lock button and rotate the change lever so that the pointer points to the ⊺ symbol. Then make sure that the bit is securely held in place by turning it slightly.



003175

Depth gauge



1. Depth gauge
2. Clamp screw
3. Grip base

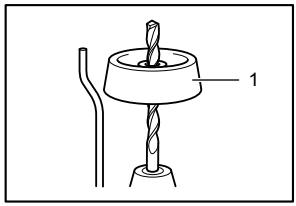
003182

The depth gauge is convenient for drilling holes of uniform depth. Loosen the clamp screw and adjust the depth gauge to the desired depth. After adjusting, tighten the clamp screw firmly.

NOTE:

- The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing/motor housing.

Dust cup (optional accessory)



1. Dust cup

003186

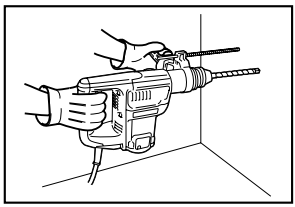
Use the dust cup to prevent dust from falling over the tool and on yourself when performing overhead drilling operations. Attach the dust cup to the bit as shown in the figure. The size of bits which the dust cup can be attached to is as follows.

	Bit diameter
Dust cup 5	6 mm - 14.5 mm
Dust cup 9	12 mm - 16 mm

006406

OPERATION

Hammer drilling operation



003198

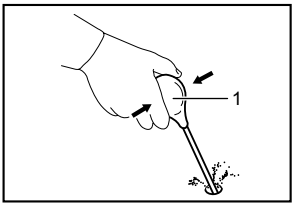
Set the change lever and the shift lever to the symbol. Position the bit at the desired location for the hole, then pull the switch trigger. Do not force the tool. Light pressure gives best results. Keep the tool in position and prevent it from slipping away from the hole.

Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

⚠CAUTION:

- When the bit begins to break through concrete or if the bit strikes reinforcing rods embedded in concrete, the tool may react dangerously. Maintain good balance and safe footing while holding the tool firmly with both hands to prevent dangerous reaction.

Blow-out bulb (optional accessory)

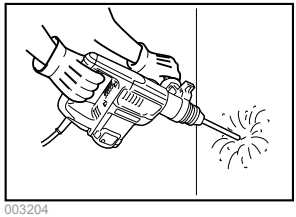


1. Blow-out bulb

002449

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

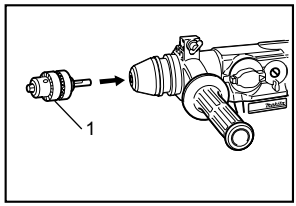
Chipping/Scaling/Demolition



003204

Set the change lever and the shift lever to the symbol. Hold the tool firmly with both hands. Turn the tool on and apply slight pressure on the tool so that the tool will not bounce around, uncontrolled. Pressing very hard on the tool will not increase the efficiency.

Drilling in wood or metal



1. Drill chuck assembly

003221

Use the optional drill chuck assembly. When installing it, refer to "Installing or removing the bit" described on the previous page.

Set the change lever and the shift lever to the symbol. You can drill up to 13 mm diameter in metal and up to 30 mm diameter in wood.

⚠CAUTION:

- Never use "rotation with hammering" when the drill chuck assembly is installed on the tool. The drill chuck assembly may be damaged.

Drilling in wood

- When drilling in wood, best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.

Drilling in metal

- To prevent the bit from slipping when starting a hole, make an indentation with a centerpunch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling. Use a cutting lubricant when drilling metals. The exception is brass which should be drilled dry.

⚠CAUTION:

- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only

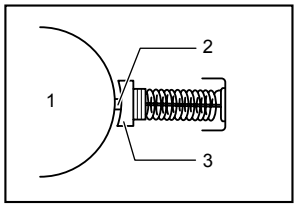
serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.

MAINTENANCE

⚠CAUTION:

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

Replacing carbon brushes

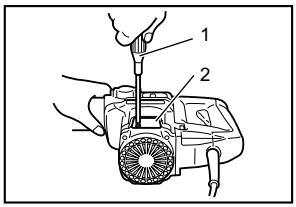


1. Commutator
2. Insulating tip
3. Carbon brush

001146

When the resin insulating tip inside the carbon brush is exposed to contact the commutator, it will automatically shut off the motor. When this occurs, both carbon brushes should be replaced. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

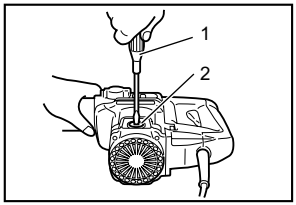
Use a screwdriver to remove the brush holder cover.



1. Screwdriver
2. Brush holder cover

003224

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

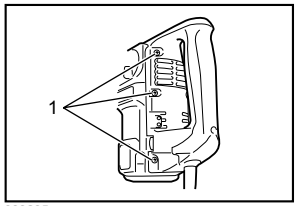


1. Screwdriver
2. Brush holder cap

003230

Lubrication

This tool requires no hourly or daily lubrication because it has a grease-packed lubrication system. Lubricate the tool every time the carbon brushes are replaced.



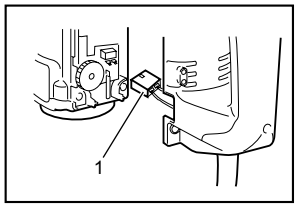
1. Screws

003235

Run the tool for several minutes to warm it up. Switch off and unplug the tool.

Loosen the six screws and remove the handle. Note that the top screws are different from other screws.

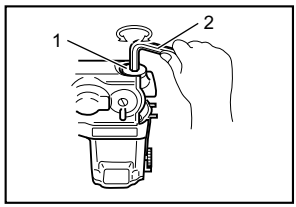
Disconnect the connector by pulling it.



1. Connector

003239

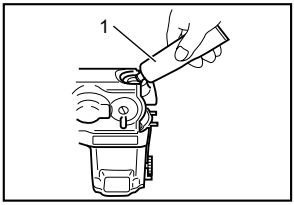
Remove the crank cap using a hex wrench. Rest the tool on the table with the bit end pointing upwards. This will allow the old grease to collect inside the crank housing.



1. Crank cap
2. Hex wrench

003242

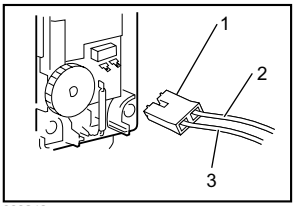
Wipe out the old grease inside and replace with a fresh grease (30 g). Use only Makita genuine hammer grease (optional accessory). Filling with more than the specified amount of grease (approx. 30 g) can cause faulty hammering action or tool failure. Fill only with the specified amount of grease.



1. Hammer grease

003246

Reinstall the crank cap and tighten with the hex wrench. Connect the connector and reinstall the handle.



1. Connector
2. Black
3. White

003248

⚠CAUTION:

- Do not tighten the crank cap excessively. It is made of resin and is subject to breakage.
- Be careful not to damage the terminals or lead wires especially when wiping out the old grease or installing the handle.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

ACCESSORIES

⚠CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- SDS-Plus Carbide-tipped bits
- Bull point
- Cold chisel
- Drill chuck assembly
- Drill chuck S13
- Chuck adapter
- Chuck key S13
- Hammer grease
- Bit grease
- Depth gauge
- Blow-out bulb
- Dust cup
- Safety goggles
- Plastic carrying case

Makita Corporation
Anjo, Aichi, Japan

884253E223

www.makita.com